## PATENT COOPERATION TREATY

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

RÊC'D	28	VOV	2005
WIPO			PCT

Applicant's or ag	gent's file reference		<del></del>	
31116.014.WO		FOR FURTHER AC	CTION	See Form PCT/IPEA/416
International app		International filing date	(day/month/year)	Priority date (day/month/year)
PCT/US04/0861	PCT/US04/08614 22 March 2004 (22.03.2 International Patent Classification (IPC) or national classification at		004)	24 March 2003 (24.03.2003)
International Pate	ent Classification (IPC)	or national classification ar	nd IPC	
Applicant	7/00 and US Cl.: 280/20	4, 292, 498; 224/427, 425		
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CURTIS FREDE				
1 .	and and	. Writere 22 and fightill	uco lo ine applicant ac	ished by this International Preliminary ecording to Article 36.
2. This	REPORT consists of	a total o <u>f 5</u> sheets, inc	luding this cover sheet	·.
3. This	report is also accompa	anied by ANNEXES, co	omprising:	
а. 🗌	(sent to the applicat	nt and to the Internation	nal Bureau) a total of	sheets, as follows:
	sheets of the this report an and Section 6	description, claims and/ d/or sheets containing 07 of the Administrative	or drawings which ha rectifications authorize Instructions).	ve been amended and are the basis of ed by this Authority (see Rule 70.16
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
b. L_	(sent to the Intern	ational Bureau only) a t	total of (indicate type a	and number of electronic carrier(s))
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))  containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).				
4. This	report contains indicat	ions relating to the follo	owing items:	
$\boxtimes$		sis of the report	3	
	Box No. II Pri	ority		
	Box No. III No	n-establishment of opin blicability	ion with regard to nov	elty, inventive step and industrial
		ck of unity of invention		
$\boxtimes$	Box No. V Res	asoned statement under Article 35(2) with regard to novelty, inventive step or		
	Box No. VI Cer	ustrial applicability; citations and explanations supporting such statement tain documents cited		
	Box No. VII Cer	tain defects in the international application		
		tain observations on the international application		
Date of submissi	on of the demand		Date of completion of	
30 September 2004 (30.09.2004)				
Name and mailing address of the IPEA/ US		05 October 2005 (05.10.2005)		
Mail Stop PCT, Attn: IPEA/US		Authorized officer		
Commissioner for Patents P.O. Box 1450		Tony H. Winner -	Prope for	
Facsimile No. (571	a, Virginia 22313-1450 ) 273-3201		Telephone No. (571)2	
form PCT/IPE A /400 (cover shoot) (A =="1 2005)				

International application No.

PCT/US04/08614

Box No. I Basis of the report
1. With regard to the language, this report is based on:
the international application in the language in which it was filed.
a translation of the international application into, which is the language of a translation furnished for the purposes of:
international search (under Rules 12.3 and 23.1(b))
publication of the international application (under Rule 12.4(a))
international preliminary examination (under Rules 55.2(a) and/or 55.3(a))
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):
the international application as originally filed/furnished
the description:
pages 1-10 as originally filed/furnished
pages* NONE received by this Authority on pages* NONE received by this Authority on
the claims:
pages 11-16 as originally filed/furnished
pages* NONE as amended (together with any statement) under Article 10
pages NONE received by this Authority on
pages* NONE received by this Authority on
the drawings:
pages 1-3 as originally filed/furnished
pages* NONE received by this Authority on pages* NONE received by this Authority on
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. The amendments have resulted in the cancellation of:
the description, pages
the claims, Nos
the drawings, sheets/figs
the sequence listing (specify):
any table(s) related to the sequence listing (specify):
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
the description, pages
the claims, Nos.
the drawings, sheets/figs
the sequence listing (specify):
any table(s) related to the sequence listing (specify):
* If item 4 applies, some or all of those sheets may be marked "superseded."  orm PCT/IPEA/409 (Box No. I) (April 2005)

Form PCT/IPEA/409 (Box No. V) (April 2005)

International application No. PCT/US04/08614

Inventive Step (IS)  Claims 3-7, 9-11, 22-24  Claims 1, 2, 8, 12-21, 25-31			tatement
Claims   1, 2, 8, 16, 17	YE	Claims 3-7 9-15 18-31	Novelty (N)
Industrial Applicability (IA)  Claims 1.2, 8, 12-21, 25-31  Claims 1-31  Claims NONE  2. Citations and Explanations (Rule 70.7)		Claims 1. 2. 8, 16. 17	
Industrial Applicability (IA)  Claims 1-31  Claims NONE  Claims NONE	1/2	Claims 3.7.0 U. 22.21	Inventive Step (IS)
Industrial Applicability (IA)  Claims 1-31  Claims NONE  2. Citations and Explanations (Rule 70.7)		Claims <u>3-7, 9-11, 22-24</u> Claims <u>1, 2, 8, 12-21, 25-31</u>	inventive step (15)
Claims NONE  2. Citations and Explanations (Rule 70.7)			Industrial Applicability (LA)
2. Citations and Explanations (Rule 70.7)			industrial Applicability (IA)
2. Citations and Explanations (Rule 70.7) Please See Continuation Sheet			
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International application No. PCT/US04/08614

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In case the space in any of the preceding boxes is not sufficient.

Continuation of:

Supplemental Box

V. 2. Citations and Explanations:

1. Claims 1, 2, 8, 16, and 17 lack the novelty under PCT Article 33(2) as being anticipated by Couture (US. patent 5,842,710).

Couture discloses a bicycle towing device for towing a trailing bicycle behind a leading bicycle, comprising:

a. A leading bicycle connection member connectable to a leading bicycle;

- b. A trailing bicycle connection member having an upper frame connection member and a lower frame connection member, the lower frame connection member being connectable to a front fork of the trailing bicycle and the upper frame connection member being connectable to a portion of the trailing bicycle above the front fork;
  - c. A low bar interconnecting the leading bicycle connection member to the trailing bicycle connection member.

With regard to claims 2, 8, 16, and 17 Couture discloses all of the claimed limitations.

2. Claims 12-14, 18-21, 26-28, and 30-31 lack an inventive step under PCT Article 33(3) as being obvious over Couture in view of Cobb, Jr. (US. patent 5,641,173).

With regard to claim 18, Couture is disclosed above but lacks the teaching of a bi-directional joint that connected to the first clamp.

Cobb teaches a towing device for a cycling trailer using a latching universal joint (bi-directional joint) for providing the cycling with greater articulation between the cycling and the trailing vehicle.

Based on the teaching of Cobb, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the towing device of Couture to include the latching universal joint of Cobb so as to provide greater range of articulation between the cycling and the trailing vehicle.

The same logic of rejection above is also applied to claims 12-14.

With regard to claims 19-21, 26-28, and 30-31, Couture as modified by Cobb discloses all of the claimed limitations.

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International application No. PCT/US04/08614

Supplemental Box	
3. Claims 15, 25, and 29 lack an inventive step under PCT Article 33(3) as	heing obvious over Course in the CO 11 Y
Couture as modified by Cobb discloses the claimed invention except for surface for the gripping the leading bicycle. It would have been obvious to one have made to use any suitable inserts for the clamping device so as to provide bet since the insert material are well known for their use in the coupling/mating art a would be within the level of ordinary skill in the art.  4. Claims 1-31 meet the criteria set out in PCT Article 33(4) and thus meet	the use of interchangeable insert that provides a gripping naving ordinary skill in the art at the time the invention ter fitting between two mating components/structure, and the selection of any of these known equivalent inserts
claimed can be made or used in industry.	mousural applicability because the subject matter
NEW CITATIONS	
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